

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-18 (Canceled).

Claim 19 (New): A foil comprising:

optically refractive pyramidal elements, each having a triangular base, such that the bases of adjacent elements are turned 180 degrees relative to each other,

wherein the pyramidal elements have respective apex angles configured to provide a desired optical refraction.

Claim 20 (New): A foil according to claim 19, wherein the bases are divided into adjacent rows, with the bases of the elements of adjacent rows being turned through 180 degrees relative to each other.

Claim 21 (New): A foil according to claim 19, wherein the pyramidal elements have identical dimensions.

Claim 22 (New): A foil according to claim 19, wherein a dimension of sides of the bases of the pyramidal elements ranges from 1-200 μm , or from 5- 40 μm , or is around 10 μm .

Claim 23 (New): A foil according to claim 19, wherein the triangular base is equilateral.

Claim 24 (New): A foil according to claim 19, wherein the pyramidal elements have a height configured to provide a desired optical refractive pattern.

Claim 25 (New): A foil according to claim 19, wherein the apex angle lies between 30°-80°.

Claim 26 (New): A foil according to claim 19, wherein the apex angle is around 60°.

Claim 27 (New): A foil according to claim 19, wherein the height of the pyramidal elements lies around 7.5 μm .

Claim 28 (New): A lighting system comprising:
the foil according to claim 19; and
a light source irradiating the foil, wherein the distance between the foil and the light source is variable.

Claim 29 (New): A lighting system according to claim 27, wherein the bases of the pyramidal elements may be directed towards the light source or away from the light source.

Claim 30 (New): A lighting system according to claim 28, wherein the respective heights of the pyramidal elements are configured to provide a desired light distribution.

Claim 31 (New): A lighting system according to claim 19, wherein the respective apex angles of elements are configured to provide a desired light distribution.

Claim 32 (New): Use of the foil according to claim 19, wherein the optically refractive foil is used for imparting a desired refraction pattern to electromagnetic waves, visible light, heat waves, infrared light waves, or ultraviolet waves.

Claim 33 (New): Use of the foil according to claim 32, wherein the foil is used for being affixed to a display screen.

Claim 34 (New): Use of the foil according to claim 32, wherein the foil is used for being affixed to solar panels and/or solar cells.

Claim 35 (New): A display screen provided with a foil according to claim 19.

Claim 36 (New): A solar system provided with a foil according to claim 19.